

QY 181 METELEVEGNOFDRGYSOYVWTDNEKNVADLENPELITDKKVSNIODITPLEEVLK 240
 DB 181 METELEVEGNOFDRGYSOYVWTDSEKRVADLENPELITDKKVSNIQETPLEESIIQ 240
 QY 241 TNRPLLIADVDGEALPTLVNKRIGTFENVAVAPGDFDRKAMLEIDIALITGCVIT 300
 DB 241 TNRPLLIADVDGEALPTLVNKRIGTFENVAVAPGDFDRKAMLEIDIALITGCVIT 300
 QY 301 EDGIELEKDMATRALGOAAKITVDKSTYVIEGSSSEANIALIKSOLTTSDPDR 360
 DB 301 EDGIELEKDMATRALGOAAKITVDKSTYVIEGSSSEANIALIKSOLTTSDPDR 360
 QY 361 EKLQERLAKLAGVAVIKGAPETALKEKRLIEDALNATRAVEGIVAGGCTALITV 420
 DB 361 EKLQERLAKLAGVAVIKGAPETALKEKRLIEDALNATRAVEGIVAGGCTALITV 420
 QY 421 IEKVAALEBDDATGRNIVRALPEEPQIALNAGYEGSVIDKKNSPAGTFNATG 480
 DB 421 IEKVAALEBDDATGRNIVRALPEEPQIALNAGYEGSVIDKKNSPAGTFNATG 480
 QY 481 EYVDMIKTGIIDPVKTRSAQONASVSLITTEAVANKPEPATPAPAMPAGNDPGM 540
 DB 481 EYVDMIKTGIIDPVKTRSAQONASVSLITTEAVANKPEPATPAPAMPAGNDPGM 540
 QY 541 GCMG 545
 DB 537 GCMG 541

RESULT 2

US-10-051-643-160
 : Sequence 160: Application US/10051643
 : Publication No. US20020197266A1
 : GENERAL INFORMATION:
 : APPLICANT: Watson, James D.
 : TITLE OF INVENTION: Methods and Compounds for the Treatment
 : TITLE OF INVENTION: of Immunologically-Mediated Diseases of the Respiratory
 : FILE REFERENCE: 11000.1008C
 : CURRENT APPLICATION NUMBER: US/10/051.643
 : PRIOR FILING DATE: 2002-01-18
 : PRIOR APPLICATION NUMBER: US09/156.181
 : PRIOR FILING DATE: 1998-09-17
 : PRIOR APPLICATION NUMBER: US 08/996.624
 : NUMBER OF SEQ ID NOS: 208
 : SOFTWARE: FastSeq for Windows Version 3.0
 : SEQ ID NO: 160
 : LENGTH: 541
 : TYPE: PRT
 : ORGANISM: Mycobacterium vaccae
 : US-10-051-643-160

Query Match

Best Local Similarity 62.7%; Score 1671; DB 9; Length 541;
 Matches 337; Conservative 84; Mismatches 118; Indels 4; Gaps 1;

QY 1 MAKEIKSADARAARVGVMDLADTVKTLGPKGRNVLEKAGSPILITNDGVTIAKEIE 60
 DB 1 MAKEIKSADARAARVGVMDLADTVKTLGPKGRNVLEKAGSPILITNDGVTIAKEIE 60
 QY 61 LEDHEENMGAKLSEVASKTNDIAGDGTATVTLQAIHVEGLKNTVAGANPISIRGIE 120
 DB 61 LEDHEENMGAKLSEVASKTNDIAGDGTATVTLQAIHVEGLKNTVAGANPISIRGIE 120
 QY 121 TATATVAAEALKAIAOPVSGKEALIAOVAANSRSEKVEITSEAMERVCNGCVITIEBSRG 180
 DB 121 TATATVAAEALKAIAOPVSGKEALIAOVAANSRSEKVEITSEAMERVCNGCVITIEBSRG 180
 QY 181 METELEVEGNOFDRGYSOYVWTDNEKNVADLENPELITDKKVSNIQETPLEEVLK 240
 DB 181 METELEVEGNOFDRGYSOYVWTDNEKNVADLENPELITDKKVSNIQETPLEEVLK 240

QY 241 TNRPLLIADVDGEALPTLVNKRIGTFENVAVAPGDFDRKAMLEIDIALITGCVIT 300
 DB 241 TNRPLLIADVDGEALPTLVNKRIGTFENVAVAPGDFDRKAMLEIDIALITGCVIT 300
 QY 301 EDGIELEKDMATRALGOAAKITVDKSTYVIEGSSSEANIALIKSOLTTSDPDR 360
 DB 301 EDGIELEKDMATRALGOAAKITVDKSTYVIEGSSSEANIALIKSOLTTSDPDR 360
 QY 361 EKLQERLAKLAGVAVIKGAPETALKEKRLIEDALNATRAVEGIVAGGCTALITV 420
 DB 361 EKLQERLAKLAGVAVIKGAPETALKEKRLIEDALNATRAVEGIVAGGCTALITV 420
 QY 421 IEKVAALEBDDATGRNIVRALPEEPQIALNAGYEGSVIDKKNSPAGTFNATG 480
 DB 421 IEKVAALEBDDATGRNIVRALPEEPQIALNAGYEGSVIDKKNSPAGTFNATG 480
 QY 481 EYVDMIKTGIIDPVKTRSAQONASVSLITTEAVANKPEPATPAPAMPAGNDPGM 540
 DB 481 EYVDMIKTGIIDPVKTRSAQONASVSLITTEAVANKPEPATPAPAMPAGNDPGM 540
 QY 541 GCM 543
 DB 537 GCM 539

RESULT 3

US-09-880-505-160
 : Sequence 160: Application US/09880505
 : Publication No. US20030007976A1
 : GENERAL INFORMATION:
 : APPLICANT: Watson, James D.
 : TITLE OF INVENTION: Methods and Compounds for the Treatment
 : TITLE OF INVENTION: of Immunologically-Mediated Skin Disorders
 : FILE REFERENCE: 11000.1007C2
 : CURRENT APPLICATION NUMBER: US/09/880.505
 : PRIOR FILING DATE: 2001-06-13
 : PRIOR APPLICATION NUMBER: US 09/324.542
 : PRIOR FILING DATE: 1999-06-02
 : PRIOR APPLICATION NUMBER: US 08/997.080
 : NUMBER OF SEQ ID NOS: 194
 : SOFTWARE: FastSeq for Windows Version 3.0
 : SEQ ID NO: 160
 : LENGTH: 541
 : TYPE: PRT
 : ORGANISM: Mycobacterium vaccae
 : US-09-880-505-160

Query Match

Best Local Similarity 62.7%; Score 1671; DB 9; Length 541;
 Matches 337; Conservative 84; Mismatches 118; Indels 4; Gaps 1;

QY 1 MAKEIKSADARAARVGVMDLADTVKTLGPKGRNVLEKAGSPILITNDGVTIAKEIE 60
 DB 1 MAKEIKSADARAARVGVMDLADTVKTLGPKGRNVLEKAGSPILITNDGVTIAKEIE 60
 QY 61 LEDHEENMGAKLSEVASKTNDIAGDGTATVTLQAIHVEGLKNTVAGANPISIRGIE 120
 DB 61 LEDHEENMGAKLSEVASKTNDIAGDGTATVTLQAIHVEGLKNTVAGANPISIRGIE 120
 QY 121 TATATVAAEALKAIAOPVSGKEALIAOVAANSRSEKVEITSEAMERVCNGCVITIEBSRG 180
 DB 121 TATATVAAEALKAIAOPVSGKEALIAOVAANSRSEKVEITSEAMERVCNGCVITIEBSRG 180
 QY 181 METELEVEGNOFDRGYSOYVWTDNEKNVADLENPELITDKKVSNIQETPLEEVLK 240
 DB 181 METELEVEGNOFDRGYSOYVWTDNEKNVADLENPELITDKKVSNIQETPLEEVLK 240

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Page 3

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Db 241 AGRPLLIIEADVEGEALSTLVYVNRKSTFKSVAVKAPFGDRRKALOMAILTNGGVVS 300
Qy 301 EDGLLEKDATMTALGQAAKITVDKSTVIEGSSGSSSEAIANRIALIKSOLETTSPDFR 360
Db 301 ERVGLSTLEADVSLGQARKVYVTKDEFTTIEGSSGSDAINGRAQIRAEIENSDDYDR 360
Qy 361 EKLOERLAKLAGVAVIKGAPTEALKEMKLRIDALNATRAAVEGIVAGGTAITV 420
Db 361 EKLOERLAKLAGVAVIKGAPTEALKEMKLRIDALNATRAAVEGIVAGGTAITV 420
Qy 421 IEKVALEEGDAGTGRNIVLRALEBPYROTALNAGYEGSVYIDKLNSPAGTGFNAATG 480
Db 421 APLDLEKLEGGDEAGNIVKVALERKQIAFNGLPEGVYAEKVNLPAGHGLNATG 480
Qy 481 EYVDIKTGIIDPVKVTRSALQMAASVSLITTEAVYANKPEPATPAPAMPAGMDPKM 540
Db 481 EYEDLLKAGVADPVKVTRSALQMAASIALFLITTEAVYADKPEKA---SAPAGDPTGGM 536
Qy 541 GGM 543
Db 537 GGM 539
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RESULT 4

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US-10-267-311-21
: Sequence 21, Application US/10267311
: Publication No. US20030050469A1
: GENERAL INFORMATION:
: APPLICANT: Siegel, Marvin
: APPLICANT: Chu, N. Randall
: APPLICANT: Mitten, Lee A.
: TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
: FILE REFERENCE: 12071/002001
: CURRENT APPLICATION NUMBER: US/10/267,311
: CURRENT FILING DATE: 2002-10-09
: PRIOR APPLICATION NUMBER: US/09/613,303
: PRIOR FILING DATE: 2000-07-10
: PRIOR APPLICATION NUMBER: US 60/143,757
: PRIOR FILING DATE: 1999-07-08
: NUMBER OF SEQ ID NOS: 55
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 21
: LENGTH: 948
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: fusion sequence
US-10-267-311-21
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Query Match

62.1% Score 1652.5; DB 9; Length 948;

Best Local Similarity 60.7%; Pred. No. 2.4e-98; Matches 332; Conservative 87; Mismatches 125; Indels 3; Gaps 1;

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Qy 1 MAKEIKSADARAAMRGVMDLADPVKVTGPRGRNVLEKAGSPILTNDGVYIAKEIE 60
Db 21 MAKTIADDEARGLERGLNLAADAVKVTGPRGRNVLEKKGAPTTINDGVYIAKEIE 80
Qy 61 LEDHEENAGKLVSEVASKTNDIAGDGTATATVLTQAVHEGLKNTAGAPIGIRGIE 120
Db 81 LEDPEYKIGAEIVKAKKTDVAGDGTATATVLAQALVREGLRNVAAGANPLDKRGIE 140
Qy 121 TATATAVEALKAIAPVSGKEAIAQVAASRSREKVEYISEAMERVGNDOVITIEESG 180
Db 141 KAVERTETLLKGAKEVETKEQIAATAAISAGDOSIDILAEAMKVENEGVITVESNT 200
Qy 181 METELEVEGMOFDRGYLSOYMTDNEKMYADLNPELITTKKYSNODILPLEEVK 240
Db 201 FGLLELEBGMARDKGYISGFTYDDEBEAVLEDPITILVSKSYVAKDLPLEKVI 260
Qy 241 TNRPLLIADVDGALPTLVKLNKIGTNNVYAKAFGSDRRKAMLEDAITLGSTVIT 300
Db 261 AKRPLLIADVEDGEALSTLVYVNRKSTFKSVAVKAPFGDRRKALOMAILTNGGVVS 320
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Qy 301 EDGLLEKDATMTALGQAAKITVDKSTVIEGSSGSSSEAIANRIALIKSOLETTSPDFR 360
Db 321 EYVGLLEKDATMTALGQAAKITVDKSTVIEGSSGSSSEAIANRIALIKSOLETTSPDFR 360
Qy 361 EKLOERLAKLAGVAVIKGAPTEALKEMKLRIDALNATRAAVEGIVAGGTAITV 420
Db 381 EKLOERLAKLAGVAVIKGAPTEALKEMKLRIDALNATRAAVEGIVAGGTAITV 440
Qy 421 IEKVALEEGDAGTGRNIVLRALEBPYROTALNAGYEGSVYIDKLNSPAGTGFNAATG 480
Db 441 APLDLEKLEGGDEAGNIVKVALERKQIAFNGLPEGVYAEKVNLPAGHGLNATG 500
Qy 481 EYVDIKTGIIDPVKVTRSALQMAASVSLITTEAVYANKPEPATPAPAMPAGMDPKM 537
Db 501 YVEDLLAAGVADPVKVTRSALQMAASIALFLITTEAVYADKPEKA---SAPAGDPTGGM 536
Qy 538 GGM 544
Db 561 ASMSIG 567
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RESULT 5

US-09-712-363-169

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: Sequence 169, Application US/09712363
: Patent No. US20020164588A1
: GENERAL INFORMATION:
: APPLICANT: Eisenberg, David
: APPLICANT: Rotstein, Sergio H.
: APPLICANT: Marcotte, Edward M.
: TITLE OF INVENTION: DETERMINING THE FUNCTIONS AND
: FILE REFERENCE: 07419-032001
: CURRENT APPLICATION NUMBER: US/09/712,363
: CURRENT FILING DATE: 2000-11-13
: PRIOR APPLICATION NUMBER: PCT/US00/02246
: PRIOR FILING DATE: 2000-01-28
: PRIOR APPLICATION NUMBER: 60/179,531
: PRIOR FILING DATE: 2000-02-01
: PRIOR APPLICATION NUMBER: 60/117,844
: PRIOR FILING DATE: 1999-01-29
: PRIOR APPLICATION NUMBER: 60/118,206,
: PRIOR FILING DATE: 1999-02-01
: PRIOR APPLICATION NUMBER: 60/126,593
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: 60/134,093
: PRIOR FILING DATE: 1999-05-14
: PRIOR APPLICATION NUMBER: 60/134,092
: PRIOR FILING DATE: 1999-05-14
: PRIOR APPLICATION NUMBER: 60/165,124
: PRIOR FILING DATE: 1999-11-12
: PRIOR APPLICATION NUMBER: 60/165,086
: PRIOR FILING DATE: 1999-11-12
: NUMBER OF SEQ ID NOS: 292
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 169
: LENGTH: 540
: TYPE: PRT
: ORGANISM: Mycobacterium tuberculosis
US-09-712-363-169
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Query Match

61.9% Score 1647.5; DB 9; Length 540;

Best Local Similarity 61.1%; Pred. No. 2.4e-98; Matches 332; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

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Qy 1 MAKEIKSADARAAMRGVMDLADPVKVTGPRGRNVLEKAGSPILTNDGVYIAKEIE 60
Db 1 MAKTIADDEARGLERGLNLAADAVKVTGPRGRNVLEKKGAPTTINDGVYIAKEIE 80
Qy 61 LEDHEENAGKLVSEVASKTNDIAGDGTATATVLTQAVHEGLKNTAGAPIGIRGIE 120
Db 61 LEDPEYKIGAEIVKAKKTDVAGDGTATATVLAQALVREGLRNVAAGANPLDKRGIE 120
Qy 121 TATATAVEALKAIAPVSGKEAIAQVAASRSREKVEYISEAMERVGNDOVITIEESG 180
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Db 121 KAVEVETETLLKGAKEVEKQIAATTAISAGDOSIGDLIAEMDMVGEVITVEESNT 180
Oy 181 METELEVEGKMOQDRGYLSQYWTNDNEKNVADLENPFLITDKKVSNIODILPLEEVLK 240
Db 181 FGQLELEEGKMRFDKGYISGYFTDPBERQEAILEDYILVSNVSVYKOLPLLEKXIG 240
Oy 241 TNRPLLIINDVDDEALPTLVNKRIGTFENVAVKAPGCDRRKRALEDIALITGCVIT 300
Db 241 AGRPFLIINDEVEBEALSTLVNKRIGTFENVAVKAPGCDRRKRALEDIALITGCVIS 300
Oy 301 EDGLLEKATMTALGOAKITVDKSTVYEGSSSEAIANRILIKSOLETTSDPDR 360
Db 301 EEEGTLLENADLSLGLKARKVYVTKDETTIVEGADDDALAGVNAQIOLEINSDSDR 360
Oy 361 EKLOERLAKLAGVAIVIKGAPTEALKEMKRIEDALNATRAAVEGIVAGGCTALITV 420
Db 361 EKLOERLAKLAGVAIVIKGAPTEALKEMKRIEDALNATRAAVEGIVAGGCTALITV 420
Oy 421 IEKVALELEDGDATGRNIVLRALPEVYQIOLANAGIEGSVYIDKLNSPAGTFNAATG 480
Db 421 APTLEDELKLEDEATGANIVKALEAPLKOIAFNSGLEPGVVAEKVRNLPAGHGLNAQTG 480
Oy 481 EWDIMKTGIIDPVKVTRSALONASVASLITTEAVVANKPEPATPAPAMPAGMDPGM 540
Db 481 VIEDLLAGVADPVKVTRSALONASIASGLFLETTAVVADKPE--KEKASVPGG---GDM 535
Oy 541 GGM 543
Db 536 GGM 538

```

RESULT 6

```

US-10-267-311-4
Sequence 4, Application US/10267311
Patent No. US20030050469A1
GENERAL INFORMATION:
APPLICANT: Siegel, Marcia
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/10/267,311
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 540
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-267-311-4

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```

Query Match 61.9%; Score 1647.5; DB 9; Length 540;
Best Local Similarity 61.1%; Pred. No. 2,4e-98;
Matches 332; Conservative 87; Mismatches 119; Indels 5; Gaps 2;
Oy 1 MAKEIKESADARAARVGVMDLADTVKVTLPGRNRYVELEKAFSGPLITNDGVTIAKEIE 60
Db 1 MAKTIATIDEARRGLEKGLNALADAVKVTLPGRNRYVELEKAFSGPLITNDGVTIAKEIE 60
Oy 61 LEDHEENMGALVSEVASKTNDIAGDGTATVTLVTOAIVHEGLKNVTAGANPISIRGIE 120
Db 61 LEDPEKIGALELVKAKKTDVAGDGTATVTLVTOAIVHEGLKNVTAGANPISIRGIE 120
Oy 121 TATATAEALKAIAQVSGKEAIAQVAAVSSRSKEVGEYISAMERBRGNGGVITTEESRG 180
Db 121 KAVEVETETLLKGAKEVEKQIAATTAISAGDOSIGDLIAEMDMVGEVITVEESNT 180

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Oy 181 METELEVEGKMOQDRGYLSQYWTNDNEKNVADLENPFLITDKKVSNIODILPLEEVLK 240
Db 181 FGQLELEEGKMRFDKGYISGYFTDPBERQEAILEDYILVSNVSVYKOLPLLEKXIG 240
Oy 241 TNRPLLIINDVDDEALPTLVNKRIGTFENVAVKAPGCDRRKRALEDIALITGCVIT 300
Db 241 AGRPFLIINDEVEBEALSTLVNKRIGTFENVAVKAPGCDRRKRALEDIALITGCVIS 300
Oy 301 EDGLLEKATMTALGOAKITVDKSTVYEGSSSEAIANRILIKSOLETTSDPDR 360
Db 301 EEEGTLLENADLSLGLKARKVYVTKDETTIVEGADDDALAGVNAQIOLEINSDSDR 360
Oy 361 EKLOERLAKLAGVAIVIKGAPTEALKEMKRIEDALNATRAAVEGIVAGGCTALITV 420
Db 361 EKLOERLAKLAGVAIVIKGAPTEALKEMKRIEDALNATRAAVEGIVAGGCTALITV 420
Oy 421 IEKVALELEDGDATGRNIVLRALPEVYQIOLANAGIEGSVYIDKLNSPAGTFNAATG 480
Db 421 APTLEDELKLEDEATGANIVKALEAPLKOIAFNSGLEPGVVAEKVRNLPAGHGLNAQTG 480
Oy 481 EWDIMKTGIIDPVKVTRSALONASVASLITTEAVVANKPEPATPAPAMPAGMDPGM 540
Db 481 VIEDLLAGVADPVKVTRSALONASIASGLFLETTAVVADKPE--KEKASVPGG---GDM 535
Oy 541 GGM 543
Db 536 GGM 538

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RESULT 7

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US-09-847-637B-6
Sequence 6, Application US/09847637B
Patent No. US20020150586A1
GENERAL INFORMATION:
APPLICANT: Naparstek, Yaakov
APPLICANT: Ulmansky, Rina
APPLICANT: Kashi, Yecheskel
TITLE OF INVENTION: NOVEL AMINO ACID SEQUENCES, DNA ENCODING
TITLE OF INVENTION: THE AMINO ACID SEQUENCES, ANTIBODIES DIRECTED
FILE REFERENCE: 13125-002001
CURRENT FILING DATE: 2001-05-02
PRIOR APPLICATION NUMBER: PCT/IL99/00595
PRIOR FILING DATE: 1999-11-04
PRIOR APPLICATION NUMBER: 60/107,213
PRIOR FILING DATE: 1998-11-05
NUMBER OF SEQ ID NOS: 9
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 540
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
US-09-847-637B-6

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Query Match 61.9%; Score 1647.5; DB 10; Length 540;
Best Local Similarity 61.1%; Pred. No. 2,4e-98;
Matches 332; Conservative 87; Mismatches 119; Indels 1; Gaps 2;
Oy 1 MAKEIKESADARAARVGVMDLADTVKVTLPGRNRYVELEKAFSGPLITNDGVTIAKEIE 60
Db 1 MAKTIATIDEARRGLEKGLNALADAVKVTLPGRNRYVELEKAFSGPLITNDGVTIAKEIE 60
Oy 61 LEDHEENMGALVSEVASKTNDIAGDGTATVTLVTOAIVHEGLKNVTAGANPISIRGIE 120
Db 61 LEDPEKIGALELVKAKKTDVAGDGTATVTLVTOAIVHEGLKNVTAGANPISIRGIE 120
Oy 121 TATATAEALKAIAQVSGKEAIAQVAAVSSRSKEVGEYISAMERBRGNGGVITTEESRG 180
Db 121 KAVEVETETLLKGAKEVEKQIAATTAISAGDOSIGDLIAEMDMVGEVITVEESNT 180
Oy 181 METELEVEGKMOQDRGYLSQYWTNDNEKNVADLENPFLITDKKVSNIODILPLEEVLK 240

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us-09-001-737-8.rapb

Page 5

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Db 181 FGJQLELEFGMRFDKCYISGFVYTDPERGAVLEDPYILLVSSKSVTADLPLEKVI 240
QY 241 TNRPLLIADVDGEBALPTVLNKRIGTFENVVAKAPGFGRRKAMLEDAIILTGVTIT 300
Db 241 AGKPLLIIDVDEGEBALSTLVNKRIGTFENVVAKAPGFGRRKAMLEDAIILTGCVIS 300
QY 301 EDLGLLEKDATMTALGOAAKITVDKOSTVYVGGSSSEAIANRIALIKSOLETTSDPDR 360
Db 301 EEWGLTEENADSLILGKARKVYVTDDETTIVEGAGTDALAGVAVQIROETIENDSDYDR 360
QY 361 EKLQERLAKLAGVAVIKVGAAPETALKEKRLIEDALNTPRAAVEGIVAGGCTALTIV 420
Db 361 EKLQERLAKLAGVAVIKVGAATEVELKERKRIEDAVRNKAAVEEGIVAGGCTALLQ 420
QY 421 IEKVALELEGGDAGTGRNIVLRALEPVOIALNAGYEGSVYIDKLKNSPAGTGFMATG 480
Db 421 APTLDELKLEGDEATGANIVKVALEAPLQIAFNISGLEPQVAVAEKRNLPAGHGLNQTG 480
QY 481 EMDVMTKGTIIDPVKTRSAIONAASVSLITTEAVVANKPEPATPAPAMPAGMDQGM 540
Db 481 VEDLLAGVADPVKVTRSALONASISAGLITTEAVVADKPE--KEKASVPGG---GDM 535
QY 541 GGM 543
Db 536 GGM 538
```

```
RESULT 8
US-10-267-311-17
: Sequence 17, Application US/10267311
: Publication No. US20030050469A1
: GENERAL INFORMATION:
: APPLICANT: Siegel, Marvin
: APPLICANT: Chu, N. Randall
: APPLICANT: Milzen, Lee A.
: TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
: FILE REFERENCE: 12071/002001
: CURRENT APPLICATION NUMBER: US/10/267,311
: PRIOR FILING DATE: 2002-10-09
: PRIOR APPLICATION NUMBER: US/09/613,303
: PRIOR FILING DATE: 2000-07-10
: PRIOR APPLICATION NUMBER: US 60/143,757
: NUMBER OF SEQ ID NOS: 55
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 17
: LENGTH: 639
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: fusion sequence
US-10-267-311-17
```

Query Match 61.9%; Score 1647.5; DB 9; Length 639;
Best Local Similarity 61.1%; Pred. No. 3e-98;
Matches 332; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

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QY 1 MAKEIFSDARAAVRGVMDLADTVYVTLGPKGRNVYLEKAFSGSLITNDGVTIAKEIE 60
Db 1 MAKTIAYDEARAGLEKGLNADLVKTLGPKGRNVYLEKMGAPLITNDGVSIAKEIE 60
QY 61 LEDHEFMGAKLYSEVASKTNDIAGDCTTATVLTQAIYHEGLKNTVAGANPIGIRGIE 120
Db 61 LEDPEYKIGALVEYAKRTDVGAGDCTTATVLTQALVREGLRNVAAGANPGLKRGIE 120
QY 121 TATATAVEALKAIAPVSGKEAIAQVAASVSRSEKVGSEYISEAMERVNDGVITIEESRG 180
Db 121 KAVEKYTELLKGAKEVETKEQIAATAAISAGDOSIDDLIAEAMKQKNGSNGVITVEESRT 180
QY 181 MELELEVVEGQFDRGYLSQYWTNDNEKNVADLENPILITDKKVASNIODILPLEEVK 240
Db 181 FGJQLELEFGMRFDKCYISGFVYTDPERGAVLEDPYILLVSSKSVTADLPLEKVI 240
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QY 241 TNRPLLIADVDGEBALPTVLNKRIGTFENVVAKAPGFGRRKAMLEDAIILTGVTIT 300
Db 241 AGKPLLIIDVDEGEBALSTLVNKRIGTFENVVAKAPGFGRRKAMLEDAIILTGCVIS 300
QY 301 EDLGLLEKDATMTALGOAAKITVDKOSTVYVGGSSSEAIANRIALIKSOLETTSDPDR 360
Db 301 EEWGLTEENADSLILGKARKVYVTDDETTIVEGAGTDALAGVAVQIROETIENDSDYDR 360
QY 361 EKLQERLAKLAGVAVIKVGAAPETALKEKRLIEDALNTPRAAVEGIVAGGCTALTIV 420
Db 361 EKLQERLAKLAGVAVIKVGAATEVELKERKRIEDAVRNKAAVEEGIVAGGCTALLQ 420
QY 421 IEKVALELEGGDAGTGRNIVLRALEPVOIALNAGYEGSVYIDKLKNSPAGTGFMATG 480
Db 421 APTLDELKLEGDEATGANIVKVALEAPLQIAFNISGLEPQVAVAEKRNLPAGHGLNQTG 480
QY 481 EMDVMTKGTIIDPVKTRSAIONAASVSLITTEAVVANKPEPATPAPAMPAGMDQGM 540
Db 481 VEDLLAGVADPVKVTRSALONASISAGLITTEAVVADKPE--KEKASVPGG---GDM 535
QY 541 GGM 543
Db 536 GGM 538
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RESULT 9
US-10-267-311-29
: Sequence 29, Application US/10267311
: Publication No. US20030050469A1
: GENERAL INFORMATION:
: APPLICANT: Siegel, Marvin
: APPLICANT: Chu, N. Randall
: APPLICANT: Milzen, Lee A.
: TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
: FILE REFERENCE: 12071/002001
: CURRENT APPLICATION NUMBER: US/10/267,311
: PRIOR FILING DATE: 2002-10-09
: PRIOR APPLICATION NUMBER: US/09/613,303
: PRIOR FILING DATE: 2000-07-10
: PRIOR APPLICATION NUMBER: US 60/143,757
: NUMBER OF SEQ ID NOS: 55
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 29
: LENGTH: 648
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: fusion sequence
US-10-267-311-29
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Query Match 61.9%; Score 1647.5; DB 9; Length 648;
Best Local Similarity 61.1%; Pred. No. 3e-98;
Matches 332; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

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QY 1 MAKEIFSDARAAVRGVMDLADTVYVTLGPKGRNVYLEKAFSGSLITNDGVTIAKEIE 60
Db 109 MAKTIAYDEARAGLEKGLNADLVKTLGPKGRNVYLEKMGAPLITNDGVSIAKEIE 168
QY 61 LEDHEFMGAKLYSEVASKTNDIAGDCTTATVLTQAIYHEGLKNTVAGANPIGIRGIE 120
Db 169 LEDPEYKIGALVEYAKRTDVGAGDCTTATVLTQALVREGLRNVAAGANPGLKRGIE 228
QY 121 TATATAVEALKAIAPVSGKEAIAQVAASVSRSEKVGSEYISEAMERVNDGVITIEESRG 180
Db 229 KAVEKYTELLKGAKEVETKEQIAATAAISAGDOSIDDLIAEAMKQKNGSNGVITVEESRT 288
QY 181 MELELEVVEGQFDRGYLSQYWTNDNEKNVADLENPILITDKKVASNIODILPLEEVK 240
Db 289 FGJQLELEFGMRFDKCYISGFVYTDPERGAVLEDPYILLVSSKSVTADLPLEKVI 348
QY 241 TNRPLLIADVDGEBALPTVLNKRIGTFENVVAKAPGFGRRKAMLEDAIILTGVTIT 300
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Db 349 AGPRLIIEVEGEALSTLVNKRIGFKSVAVKAPGCGRRKALQDMALITGGGVIS 408
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Qy 301 EDLGLKDATMTALGOAKITVDKSTVIEGSSSEAIANRLIKSOLETTSPDR 360
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 409 EEVGLTLEADLSLGGARKVVTVDDETTIVEGAGDTGAIINGRAOIROIENSODYDR 468
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 361 EKLQERLAKLAGVAVIKGAPTEALKEMLRIEDALNATRAVEGTVAGGCTALTIV 420
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 469 EKLQERLAKLAGVAVIKGAPTEALKEMLRIEDAVRNKAAVEGTVAGGCTALTIV 528
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 421 IEKVALELEDGDTGRNIVLRALPEVROIALNAGVSVYIDKLKNSPAGTGFAATG 480
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 529 APLDGLGTDEBANTANIVRALAPLKOIANGGLEPGVAVKVRNLPAGHGLNATG 588
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 481 EYEDMKITGIDPKVTRKSLONAAVASLITTEAVVANKPEPATPAPAPAGMDPGMW 540
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 589 VIEDLAKGADVPKVTKRSALONAAVSLITTEAVVANKPE--KEKASVPG--GDM 643
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 541 GDM 543
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 644 GDM 646
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 10
US-10-051-643-114
/ Sequence 114, Application US/10051643
/ Publication No. US20020197265A1
/ GENERAL INFORMATION:
/ APPLICANT: Watson, James D.
/ APPLICANT: Tan, Paul L. J.
/ TITLE OF INVENTION: Methods and Compounds for the Treatment
/ TITLE OF INVENTION: of Immunologically-Mediated Diseases of the Respiratory
/ FILE REFERENCE: 11000.1008C2
/ CURRENT APPLICATION NUMBER: US/10/051,643
/ PRIOR FILING DATE: 2002-01-18
/ PRIOR APPLICATION NUMBER: US09/156,181
/ PRIOR FILING DATE: 1998-09-17
/ PRIOR APPLICATION NUMBER: US 08/996,624
/ PRIOR FILING DATE: 1997-12-23
/ NUMBER OF SEQ ID NOS: 208
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 114
/ LENGTH: 523
/ TYPE: PR
/ ORGANISM: Mycobacterium vaccae
US-10-051-643-114

Query Match 61.7%; Score 1643; DB 9; Length 523;
Best Local Similarity 62.7%; Pred. No. 4,4e-98;
Matches 328; Conservative 83; Mismatches 112; Indels 0; Gaps 0;

Qy 1 MAKEIKFSADAAAMVGVDMADTVKTLGPKGRNVYLEKAFSGPLITNDGVITAKEIE 60
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MAKTIAYDEARGLERGLNALDAVAVKTLGPKGRNVYLEKMGAPPTINDGVITAKEIE 60
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 61 LEDHEMNGAKLVSEVASKTNDIAGDGTATVLTQAIYHGLKNTVYAGANPGRIGIE 120
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 LEDPEKIGALVELKAVAKTIDVAGDGTATVLTQAIYHGLKNTVYAGANPGRIGIE 120
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 121 TATATVNEALKAIAQVPSGKEAIAQVAVSRSEKVEYISEAMERGVNDGVITIEESRG 180
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 121 KAVEAVTOSLSAKAEVETKEQISATPAISAGDTQIGELIAEAMKRVNEGVTIEESNT 180
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 181 METELEVEVSGOPDGRVLSQVWYTDNEKVVADLENPELITTDKVSNIIDITLLEEVYK 240
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 181 FGLQLELTETEMFBDGYSYGFVTDAERQAVLEDPYILLVSSKSVYKDLPLEKVYQ 240
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 241 TNRPLLIADVDGEALPTLVNKRIGTFENVVAVKAPGCGRRKAMLEDAITLGGTYT 300
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 241 TNRPLLIADVDGEALPTLVNKRIGTFENVVAVKAPGCGRRKAMLEDAITLGGTYT 300
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 361 EKLQERLAKLAGVAVIKGAPTEALKEMLRIEDALNATRAVEGTVAGGCTALTIV 420
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 361 EKLQERLAKLAGVAVIKGAPTEALKEMLRIEDAVRNKAAVEGTVAGGCTALTIV 528
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 421 IEKVALELEDGDTGRNIVLRALPEVROIALNAGVSVYIDKLKNSPAGTGFAATG 480
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 421 APLDGLGTDEBANTANIVRALAPLKOIANGGLEPGVAVKVRNLPAGHGLNATG 588
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 481 EYEDMKITGIDPKVTRKSLONAAVASLITTEAVVANKPEPATPAPAPAGMDPGMW 540
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 481 EYEDLAKGADVPKVTKRSALONAAVSLITTEAVVANKPE--KEKASVPG--GDM 643
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 541 GDM 543
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 644 GDM 646
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

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Qy 301 EDLGLKDATMTALGOAKITVDKSTVIEGSSSEAIANRLIKSOLETTSPDR 360
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Db 301 ERVGLSLETAADVLSLGGARKVVTVDDETTIVEGAGDSDAIACGRAVQIRAEIENSODYDR 360
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 361 EKLQERLAKLAGVAVIKGAPTEALKEMLRIEDALNATRAVEGTVAGGCTALTIV 420
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 361 EKLQERLAKLAGVAVIKGAPTEALKEMLRIEDAVRNKAAVEGTVAGGCTALTIV 528
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 421 IEKVALELEDGDTGRNIVLRALPEVROIALNAGVSVYIDKLKNSPAGTGFAATG 480
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 421 APLDGLGTDEBANTANIVRALAPLKOIANGGLEPGVAVKVRNLPAGHGLNATG 588
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 481 EYEDMKITGIDPKVTRKSLONAAVASLITTEAVVANKPEPATPAPAPAGMDPGMW 540
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 481 EYEDLAKGADVPKVTKRSALONAAVSLITTEAVVANKPE--KEKASVPG--GDM 643
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 541 GDM 543
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 644 GDM 646
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 11
US-09-880-505-114
/ Sequence 114, Application US/09880505
/ Publication No. US2003007976A1
/ GENERAL INFORMATION:
/ APPLICANT: Watson, James D.
/ APPLICANT: Tan, Paul L.J.
/ TITLE OF INVENTION: Methods and Compounds for the Treatment
/ TITLE OF INVENTION: of Immunologically-Mediated Skin Disorders
/ FILE REFERENCE: 11000.1007C2
/ CURRENT APPLICATION NUMBER: US/09/880,505
/ PRIOR FILING DATE: 2001-06-13
/ PRIOR APPLICATION NUMBER: US 09/324,542
/ PRIOR FILING DATE: 1999-06-02
/ PRIOR APPLICATION NUMBER: US 08/997,080
/ PRIOR FILING DATE: 1997-12-23
/ NUMBER OF SEQ ID NOS: 194
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 114
/ LENGTH: 523
/ TYPE: PR
/ ORGANISM: Mycobacterium vaccae
US-09-880-505-114

Query Match 61.7%; Score 1643; DB 9; Length 523;
Best Local Similarity 62.7%; Pred. No. 4,4e-98;
Matches 328; Conservative 83; Mismatches 112; Indels 0; Gaps 0;

Qy 1 MAKEIKFSADAAAMVGVDMADTVKTLGPKGRNVYLEKAFSGPLITNDGVITAKEIE 60
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MAKTIAYDEARGLERGLNALDAVAVKTLGPKGRNVYLEKMGAPPTINDGVITAKEIE 60
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 61 LEDHEMNGAKLVSEVASKTNDIAGDGTATVLTQAIYHGLKNTVYAGANPGRIGIE 120
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 LEDPEKIGALVELKAVAKTIDVAGDGTATVLTQAIYHGLKNTVYAGANPGRIGIE 120
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 121 TATATVNEALKAIAQVPSGKEAIAQVAVSRSEKVEYISEAMERGVNDGVITIEESRG 180
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 121 KAVEAVTOSLSAKAEVETKEQISATPAISAGDTQIGELIAEAMKRVNEGVTIEESNT 180
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 181 METELEVEVSGOPDGRVLSQVWYTDNEKVVADLENPELITTDKVSNIIDITLLEEVYK 240
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 181 FGLQLELTETEMFBDGYSYGFVTDAERQAVLEDPYILLVSSKSVYKDLPLEKVYQ 240
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 241 TNRPLLIADVDGEALPTLVNKRIGTFENVVAVKAPGCGRRKAMLEDAITLGGTYT 300
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 241 TNRPLLIADVDGEALPTLVNKRIGTFENVVAVKAPGCGRRKAMLEDAITLGGTYT 300
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 301 EDLGLKDATMTALGOAKITVDKSTVIEGSSSEAIANRLIKSOLETTSPDR 360
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 301 ERVGLSLETAADVLSLGGARKVVTVDDETTIVEGAGDSDAIACGRAVQIRAEIENSODYDR 360
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 361 EKLQERLAKLAGVAVIKGAPTEALKEMLRIEDALNATRAVEGTVAGGCTALTIV 420
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 361 EKLQERLAKLAGVAVIKGAPTEALKEMLRIEDAVRNKAAVEGTVAGGCTALTIV 528
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 421 IEKVALELEDGDTGRNIVLRALPEVROIALNAGVSVYIDKLKNSPAGTGFAATG 480
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 421 APLDGLGTDEBANTANIVRALAPLKOIANGGLEPGVAVKVRNLPAGHGLNATG 588
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 481 EYEDMKITGIDPKVTRKSLONAAVASLITTEAVVANKPEPATPAPAPAGMDPGMW 540
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 481 EYEDLAKGADVPKVTKRSALONAAVSLITTEAVVANKPE--KEKASVPG--GDM 643
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 541 GDM 543
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 644 GDM 646
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

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Wed Apr 16 08:08:21 2003

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Page 7

Oy 421 IEKVALELEGGDADGRTNIVLRALPEPVROIALNNGYGSVIDLKNPSAGTGFMAATG 480
Db 421 APALDDLGSDERTANTVYALSAPLKQIAFNGCEPEGVAKESNLPAHGILMAATG 480
Oy 481 EYWDIKTGIIDPVKVTYSALONAAVASLITTEAVANKPE 523
Db 481 EYEDLLKAGVADPVKVTYSALONAAVASLITTEAVANKPE 523

RESULT 12
US-10-068-059-10
Sequence 10, Application US/10068059
Patent No. US20020155434A1
GENERAL INFORMATION:
APPLICANT: Mizzzen, Lee A.
APPLICANT: Hongwei, Liu
APPLICANT: Siegel, Marvin
TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
FILE REFERENCE: 12071-017002
CURRENT APPLICATION NUMBER: US/10/068,059
CURRENT FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: US 60/266,733
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 10
LENGTH: 690
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Fusion protein
US-10-068-059-10

Query Match 61.7%; Score 1642.5; DB 9; Length 690;
Best Local Similarity 61.1%; Pred. No. 6-8e-98;
Matches 331; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

Oy 2 AKEIKFSADRAAMVGVDMADTVKVTGLGPKGRNVYLEKAFSPSLTNDGVTIAKEIEL 61
Db 152 AKTIAVDEBARRGLEKRLNALADAVKVTGLGPKGRNVYLEKKNKAPITINDGVSIAKEIEL 211
Oy 62 EDHEENMGAKLYSEVASKTNDIAGDGTATVLTQAIYHEGLKAVTANPAGPIRGLET 121
Db 212 EDPYEKIGAELEKAVAKTIDVAGDGTATVLAQALVREGLRNVAAGANPLGLKRGIEK 271
Oy 122 ATATVAEALKAIAQPVSGKEAIAOVAVSSRSEKVEYISEAMERVGNDGVITTEESRGM 181
Db 272 AVEKVTETLLKGAKEVEETKEQIAATAAISAGDOSIDGLIAEMDKVGEVITVEESNTP 331
Oy 182 ETELEVVEGQFDRGYLSQYMTVDNEKNVADLENPELITTDKRVSNIDILPLEEVLKT 241
Db 332 GLOLELTGEMRFPDKYISGYFTVDPEROEAVIDEYILVSSKVSVDLLPLEEKVIGA 391
Oy 242 NRPLLIADVDGALPTLVNKRIGTFNVVAVKAPGGRKAMLEDAITLGGVYITE 301
Db 392 GKPLIIIAEDVEGALSTLVNKRIGTFKSVAVKAPGGRKAMLEDAITLGGVYITE 451
Oy 302 DIGLEIKDAMTALGOAAKITVDKSTVYEGSSSEALINRILIKSOLLETTSDPDRE 361
Db 452 EVGLTLENADLSLIGKAKKVVTKDETTIVBGAQDIDAIAGRVADQROEITENSDDIDRE 511
Oy 362 KLOERLAKLAGVAVIKGAPETALKEKRLIEDALNATRAAVEGIVAGGATLTVI 421
Db 512 KLOERLAKLAGVAVIKGAAETELKEKRNHIEDAVRNKAAVEGIVAGGATLTVI 571
Oy 422 EKVALELEGGDADGRTNIVLRALPEPVROIALNNGYGSVIDLKNPSAGTGFMAATG 481
Db 572 PTLEDEKLEGGDEATGANIVKVALEAPLKOIAFNSGLGEGVAAEKVRNLPAGHILMAOTGV 631
Oy 482 WYWDIKTGIIDPVKVTYSALONAAVASLITTEAVANKPEPATPAAMPAGMDPGMG 541
Db 632 YEDLLAAGVADPVKVTYSALONAAVASLITTEAVANKPE--KKAASVPG--GDMG 686

Oy 542 GM 543
Db 687 GM 688

RESULT 13
US-10-068-059-8
Sequence 8, Application US/10068059
Patent No. US20020155434A1
GENERAL INFORMATION:
APPLICANT: Mizzzen, Lee A.
APPLICANT: Hongwei, Liu
APPLICANT: Siegel, Marvin
TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
FILE REFERENCE: 12071-017002
CURRENT APPLICATION NUMBER: US/10/068,059
CURRENT FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: US 60/266,733
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 8
LENGTH: 709
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Fusion protein
US-10-068-059-8

Query Match 61.7%; Score 1642.5; DB 9; Length 709;
Best Local Similarity 61.1%; Pred. No. 7.1e-98;
Matches 331; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

Oy 2 AKEIKFSADRAAMVGVDMADTVKVTGLGPKGRNVYLEKAFSPSLTNDGVTIAKEIEL 61
Db 171 AKTIAVDEBARRGLEKRLNALADAVKVTGLGPKGRNVYLEKKNKAPITINDGVSIAKEIEL 230
Oy 62 EDHEENMGAKLYSEVASKTNDIAGDGTATVLTQAIYHEGLKAVTANPAGPIRGLET 121
Db 231 EDPYEKIGAELEKAVAKTIDVAGDGTATVLAQALVREGLRNVAAGANPLGLKRGIEK 290
Oy 122 ATATVAEALKAIAQPVSGKEAIAOVAVSSRSEKVEYISEAMERVGNDGVITTEESRGM 181
Db 291 AVEKVTETLLKGAKEVEETKEQIAATAAISAGDOSIDGLIAEMDKVGEVITVEESNTP 350
Oy 182 ETELEVVEGQFDRGYLSQYMTVDNEKNVADLENPELITTDKRVSNIDILPLEEVLKT 241
Db 351 GLOLELTGEMRFPDKYISGYFTVDPEROEAVIDEYILVSSKVSVDLLPLEEKVIGA 410
Oy 242 NRPLLIADVDGALPTLVNKRIGTFNVVAVKAPGGRKAMLEDAITLGGVYITE 301
Db 411 GKPLIIIAEDVEGALSTLVNKRIGTFKSVAVKAPGGRKAMLEDAITLGGVYITE 470
Oy 302 DIGLEIKDAMTALGOAAKITVDKSTVYEGSSSEALINRILIKSOLLETTSDPDRE 361
Db 471 EVGLTLENADLSLIGKAKKVVTKDETTIVBGAQDIDAIAGRVADQROEITENSDDIDRE 530
Oy 362 KLOERLAKLAGVAVIKGAPETALKEKRLIEDALNATRAAVEGIVAGGATLTVI 421
Db 531 KLOERLAKLAGVAVIKGAAETELKEKRNHIEDAVRNKAAVEGIVAGGATLTVI 590
Oy 422 EKVALELEGGDADGRTNIVLRALPEPVROIALNNGYGSVIDLKNPSAGTGFMAATG 481
Db 591 PTLEDEKLEGGDEATGANIVKVALEAPLKOIAFNSGLGEGVAAEKVRNLPAGHILMAOTGV 650
Oy 482 WYWDIKTGIIDPVKVTYSALONAAVASLITTEAVANKPEPATPAAMPAGMDPGMG 541
Db 651 YEDLLAAGVADPVKVTYSALONAAVASLITTEAVANKPE--KKAASVPG--GDMG 705
Oy 542 GM 543
Db 706 GM 707

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RESULT 14
US-10-068-059-12
: Sequence 12, Application US/10068059
: Patent No. US20020155434A1
: GENERAL INFORMATION:
: APPLICANT: Mizzzen, Lee A.
: APPLICANT: Hongwei, Liu
: APPLICANT: Siegel, Marvin
: TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
: FILE REFERENCE: 12071-017002
: CURRENT APPLICATION NUMBER: US/10/068, 059
: CURRENT FILING DATE: 2002-06-04
: PRIOR APPLICATION NUMBER: US 60/266, 733
: NUMBER OF SEQ ID NOS: 12
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 12
: LENGTH: 724
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Fusion protein
US-10-068-059-12

```

Query Match 61.7%; Score 1642.5; DB 9; Length 724;

Best Local Similarity 61.1%; Pred. No. 7.3e-98;

Matches 331; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

```

QY 2 AKEIFSADRAAMVGVDMADTVKTLGPKGNVLEKAGSPPLTNDGVTAKETEL 61
DB 186 AKTIAYDEARGLERGLNLAADAVKTLGPKGNVLEKAGAPITINDGVSIAKETEL 245
QY 62 EDHFNMGALVSEVASKTNDIAGDGTATVLAQVHGLKNTAGANPFGIRGRET 121
DB 246 EDPYERKIGAEVLEKAKTIDVAGDGTATVLAQVHGLKNTAGANPFGIRGRET 305
QY 122 ATATAVALKALAPVSGKEALIAQVAASRSSEKVEYISEAMERVGNDGVITYEESRGM 181
DB 306 AVEKLTETLLKGAKEVEKEQIAATAAISAGDOSIGDLIAEMDKVNEGVITYEESNMF 365
QY 182 ETELEVVEGQFPGYLSQYVWTDNEKNVADLENPFILITDKVSNIDILPLEEVLKT 241
DB 366 GLOLELTENADSLGKARKVYVTKDETTIVEGAGDIDAIAGRVNOIROIENSDDSYDRE 425
QY 242 NRPLLIADVDGEALPTLVNKRIGTNNVAVYAGFGDRKRAMLEDIALITGGVITYE 301
DB 426 GKPLLIADVEGEALSTLVNKRIGTFKSVAVAKPGFDRKRAMLEDIALITGGVITYE 485
QY 302 DLGLELDATMTALGOAAKITVDKSTIVYEGSSSEAIANRIALIKSOLETTSDPRE 361
DB 486 EVGLITENADSLGKARKVYVTKDETTIVEGAGDIDAIAGRVNOIROIENSDDSYDRE 545
QY 362 KLOERLAKLAGVAVIKAGAPTELTALKERKRIEDALNATRAVEEGIVAGGCTALITVI 421
DB 546 KLOERLAKLAGVAVIKAGAPTELTALKERKRIEDALNATRAVEEGIVAGGCTALITVI 605
QY 422 EKVALELEGGDATGRNIVLALPEPVQIALNAGESVYIDKLKNSPAGTGFNAATGE 481
DB 606 PTLEDELKLEGGDATGRNIVLALPEPVQIALNAGESVYIDKLKNSPAGTGFNAATGE 665
QY 482 WVDNMTKGIIDPKYTRSAIONAASVASLITTEAVVANKPEPATPAPAMPAGMDGKMG 541
DB 666 YEDLLAAGVADPVKTRSAIONAASIASGLFITEAVVADKPE--KERASVPGC---GDMG 720
QY 542 GM 543
DB 721 GM 722

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RESULT 15
US-10-068-059-6

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: Sequence 6, Application US/10068059
: Patent No. US20020155434A1
: GENERAL INFORMATION:
: APPLICANT: Mizzzen, Lee A.
: APPLICANT: Hongwei, Liu
: APPLICANT: Siegel, Marvin
: TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
: FILE REFERENCE: 12071-017002
: CURRENT APPLICATION NUMBER: US/10/068, 059
: CURRENT FILING DATE: 2002-06-04
: PRIOR APPLICATION NUMBER: US 60/266, 733
: NUMBER OF SEQ ID NOS: 12
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 6
: LENGTH: 746
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Fusion protein
US-10-068-059-6

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Query Match 61.6%; Score 1639.5; DB 9; Length 746;

Best Local Similarity 60.9%; Pred. No. 1.2e-97;

Matches 330; Conservative 88; Mismatches 119; Indels 5; Gaps 2;

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QY 2 AKEIFSADRAAMVGVDMADTVKTLGPKGNVLEKAGSPPLTNDGVTAKETEL 61
DB 208 AKTIAYDEARGLERGLNLAADAVKTLGPKGNVLEKAGAPITINDGVSIAKETEL 267
QY 62 EDHFNMGALVSEVASKTNDIAGDGTATVLAQVHGLKNTAGANPFGIRGRET 121
DB 268 EDPYERKIGAEVLEKAKTIDVAGDGTATVLAQVHGLKNTAGANPFGIRGRET 327
QY 122 ATATAVALKALAPVSGKEALIAQVAASRSSEKVEYISEAMERVGNDGVITYEESRGM 181
DB 328 AVEKLTETLLKGAKEVEKEQIAATAAISAGDOSIGDLIAEMDKVNEGVITYEESNMF 387
QY 182 ETELEVVEGQFPGYLSQYVWTDNEKNVADLENPFILITDKVSNIDILPLEEVLKT 241
DB 388 GLOLELTENADSLGKARKVYVTKDETTIVEGAGDIDAIAGRVNOIROIENSDDSYDRE 447
QY 242 NRPLLIADVDGEALPTLVNKRIGTNNVAVYAGFGDRKRAMLEDIALITGGVITYE 301
DB 448 GKPLLIADVEGEALSTLVNKRIGTFKSVAVAKPGFDRKRAMLEDIALITGGVITYE 507
QY 302 DLGLELDATMTALGOAAKITVDKSTIVYEGSSSEAIANRIALIKSOLETTSDPRE 361
DB 508 EVGLITENADSLGKARKVYVTKDETTIVEGAGDIDAIAGRVNOIROIENSDDSYDRE 567
QY 362 KLOERLAKLAGVAVIKAGAPTELTALKERKRIEDALNATRAVEEGIVAGGCTALITVI 421
DB 568 KLOERLAKLAGVAVIKAGAPTELTALKERKRIEDALNATRAVEEGIVAGGCTALITVI 627
QY 422 EKVALELEGGDATGRNIVLALPEPVQIALNAGESVYIDKLKNSPAGTGFNAATGE 481
DB 628 PTLEDELKLEGGDATGRNIVLALPEPVQIALNAGESVYIDKLKNSPAGTGFNAATGE 687
QY 482 WVDNMTKGIIDPKYTRSAIONAASVASLITTEAVVANKPEPATPAPAMPAGMDGKMG 541
DB 688 YEDLLAAGVADPVKTRSAIONAASIASGLFITEAVVADKPE--KERASVPGC---GDMG 742
QY 542 GM 543
DB 743 GM 744

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Search completed: April 8, 2003, 14:33:43
Job time : 40 secs